

What is claimed is:

- 1        1. A method of communicating digital data from a computer system to a display device comprising:
  - 3            receiving an analog video signal from a computer system, the analog video signal including a predetermined data pattern;
  - 4            sampling the analog video signal to detect the predetermined data pattern; and
  - 5            recovering digital data from the detected predetermined data pattern.
- 1        2. The method according to claim 1, wherein the predetermined data pattern occurs a predetermined time interval after a horizontal sync pulse which is associated with the analog video signal.
- 1        3. The method according to claim 1, wherein the predetermined data pattern occurs outside of a blanking interval for the analog video signal.
- 1        4. The method according to claim 1, wherein the display device responds to the predetermined data pattern by commencing a set-up process.
- 1        5. The method according to claim 4, wherein the set-up process includes adjusting a sampling rate for sampling the analog video signal.

1       6.     The method according to claim 4, wherein the set-up process includes adjusting a  
2                   sampling phase for sampling the analog video signal.

1       7.     The method according to claim 4, wherein the set-up process includes adjusting  
2                   an orientation of a display image for the display device.

1       8.     The method according to claim 7, wherein said adjusting an orientation of the  
2                   display image comprises adjusting a sampling start time for the analog video signal  
3                   relative to a horizontal sync pulse.

1       9.     The method according to claim 7, wherein said adjusting an orientation of the  
2                   display image comprises adjusting a sampling start time for the analog video signal  
3                   relative to a vertical sync pulse.

1       10.    The method according to claim 1, wherein the predetermined data pattern is  
2                   representative of a parameter of the analog video signal.

1       11.    The method according to claim 10, wherein the parameter is representative of a  
2                   resolution of the analog video signal.

1       12.    The method according to claim 10, wherein the analog video signal is formed in  
2                   accordance with a clock signal, the parameter being representative of a frequency of the  
3                   clock signal.

13. The method according to claim 1, wherein the predetermined data pattern is representative of a beginning of a horizontal blanking interval relative to a horizontal sync pulse for the analog video signal.

14. The method according to claim 13, wherein the predetermined data pattern is utilized for adjusting a horizontal orientation of a display image for the display device.

15. The method according to claim 1, wherein the predetermined data pattern is representative of a beginning of a vertical blanking interval relative to a vertical sync pulse for the analog video signal.

16. The method according to claim 15, wherein the predetermined data pattern is utilized for adjusting a vertical orientation of a display image for the display device.

17. An apparatus for communicating digital data from a computer system to a display device comprising:

means for receiving an analog video signal from a computer system, the analog video signal including a predetermined data pattern;

means for sampling the analog video signal for detecting the predetermined data pattern; and

means for recovering digital data from the detected predetermined data pattern.

1       18. The apparatus according to claim 17, wherein the predetermined data pattern  
2 occurs a predetermined time interval after a horizontal sync pulse which is associated  
3 with the analog video signal.

1       19. The apparatus according to claim 17, wherein the predetermined data pattern  
2 occurs outside of a blanking interval for the analog video signals.

1       20. The apparatus according to claim 17, wherein the display device responds to the  
2 predetermined data pattern by commencing a set-up process.

1       21. The apparatus according to claim 20, wherein the set-up process includes  
2 adjusting a sampling rate for sampling the analog video signal.

1       22. The apparatus according to claim 20, wherein the set-up process includes  
2 adjusting a sampling phase for sampling the analog video signal.

1       23. The apparatus according to claim 20, wherein the set-up process includes  
2 adjusting an orientation of a display image for the display device.

1       24. The apparatus according to claim 23, wherein said adjusting an orientation of the  
2 display image comprises adjusting a sampling start time for the analog video signal  
3 relative to a horizontal sync pulse.

1        25. The apparatus according to claim 23, wherein said adjusting an orientation of the  
2        display image comprises adjusting a sampling start time for the analog video signal  
3        relative to a vertical sync pulse.

1        26. The apparatus according to claim 17, wherein the predetermined data pattern is  
2        representative of a parameter of the analog video signal.

1        27. The apparatus according to claim 26, wherein the parameter is representative of a  
2        resolution of the analog video signal.

1        28. The apparatus according to claim 26, wherein the analog video signal is formed in  
2        accordance with a clock signal, the parameter being representative of a frequency of the  
3        clock signal.

1        29. The apparatus according to claim 17, wherein the predetermined data pattern is  
2        representative of a beginning of a horizontal blanking interval relative to a horizontal  
3        sync pulse for the analog video signal.

1        30. The apparatus according to claim 29, wherein the predetermined data pattern is  
2        utilized for adjusting a horizontal orientation of a display image for the display device.

31. The apparatus according to claim 17, wherein the predetermined data pattern is representative of a beginning of a vertical blanking interval relative to a vertical sync pulse for the analog video signal.

32. The apparatus according to claim 31, wherein the predetermined data pattern is utilized for adjusting a vertical orientation of a display image for the display device.